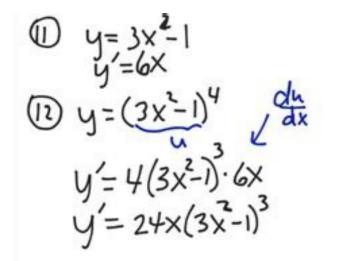
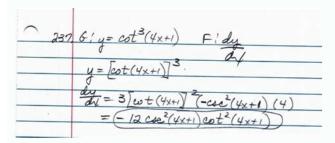
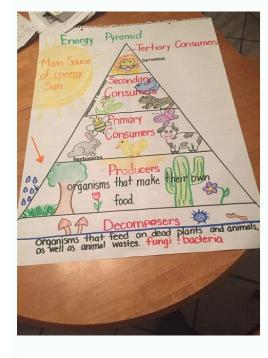
Chain rule integration worksheet

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15)
$$y = e^{\frac{x}{3}}x + \ln(x^2 + 1)$$
 16) $y = \frac{5 - \cos x}{\sin x}$ 

$$16)y = \frac{5 - \cos x}{\sin x}$$

$$17)y = \sec^6 2x$$

$$18)y = \tan^2 x e^{\frac{x}{2}}$$

$$19)y = \csc^2 \frac{3x}{5}$$

$$20)y = \cot \frac{2x}{7}e^x$$



## Reverse chain rule integration worksheet.

Calculus is all about rates of change. To find a rate of change, we need to calculate a derivative. In this article, we're going to find out how to calculate derivatives for products of functions. Let's start by thinking about a useful real world problem that you probably won't find in your maths textbook. For the last few weeks, I've noticed a rather interesting smell coming out of Sam's room. Last week, Sam finished his Year 12 exams and went away on schoolies. I decided to clean out his room and track down the smell. Now, you must bear in mind that Sam's last day of school was at the end of September, and it was now the middle of November. I finally tracked the smell down to Sam's school bag, and noticed the alien life-form on the right inside his lunch box. I'll give you a hint: it wasn't fruit loaf! Needless to say, it ended up in the garbage pretty quick smart. Sam had decided to eat a chicken burger and chips for lunch on the last day of school instead of the delicious turkey and cheese sandwich that I had packed for him. Perhaps he'd decided to model the growth of the mold colony on his sandwich. He might have come up with an equation like this: \(\text{mold}(t)\) is the size of the mold colony in tens of thousands of spores at time \((t\)) days. He might have wanted to calculate the rate  $t^{2}e^{t+2}$ ), and evaluate it at (t=20). Sounds easy enough, but how do we find the derivative of (t+2) involves a product of two functions of (t+2) involves a differentiation law that allows us to calculate the derivatives of products of functions. Strangely enough, it's called the Product Rule. So what does the product rule say? The derivative of  $\langle f(x) \rangle$  is  $\langle f(x) \rangle$  is  $\langle f(x) \rangle$  is a little 'after the  $\langle f(x) \rangle$  is ' $\langle$ is the function of \(x\), then we can also write its derivative as \(\dfrac{dy}{dx}\)? There are two ways we could proceed here. One way is to expand the function, to write \(y = x^5 + 4x^3\). We could then use the sum, power and multiplication by a constant rules to find \(\\begin{align\*} \dfrac{dy}{dx} &= \dfrac{d}{dx}(x^2)\\ &= 5x^4 + 4(2x)\\ &= 5x^4 + 8x. \end{align\*} \) Of course, this is an article on the product rule, so we should really use the product rule to find the derivative. Let's see if we get the same answer: We set  $\langle f(x) = x^3 \rangle$  and  $\langle g(x) = x^2 + 4 \rangle$ . Then  $\langle f'(x) = 3x^2 \rangle$ , and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  and  $\langle g'(x) = 2x \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  by the power and sum rules. So,  $\langle g'(x) + f'(x) g(x) \rangle$  by the power and sum rules. 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We set  $(f(x) = 17x) \cdot (f(x) = 17x) \cdot (f($ Now use the product rule to find:  $\frac{dy}{dx} &= f(x) g'(x) + f'(x) g(x)\\ &= 17x\left(\frac{dy}{dx} &= 17x\left(\frac{$ 20 days. So he needs to find the derivative of the mold function (blue cheese?) and plug in (t = 20). It looks like a job for the product rule! Set  $(f(t) = t^2)$ . So, applying the product rule, (t = 20). It looks like a job for the product rule, (t = 20). Then (f(t) = 2t) by the power rule, and  $(g(t) = e^{t+2})$ . At (t = 20): (Worksheets Calculus Help, Problems, and Solutions Elementary Math Help Geometry Help Mathematics of Stats and Probability Prealgebra Math Help Precalculus Help, Problems, and Solutions Trigonometry / Algebra 2 Trig Help Equation Calculator Will automatically solve equations and show all of the required work. While many Six Sigma practitioners and other quality improvement professionals like to use the Fishbone diagram in Engage for brainstorming because of its ease of use and integration with other Minitab users find an infrequent need for a Fishbone diagram. For the more casual user of the Fishbone diagram, Minitab has the right tool to get the job done. Minitab's Fishbone (or Cause-and-Effect) diagram in Minitab: By typing the information directly into the Cause-and-Effect dialog window, or By entering the information in the worksheet first and then using the worksheet data to complete the Cause-and-Effect dialog box. In this post, I'll walk through examples of how to create a Fishbone diagram using both options, starting with the first option above. Because I'm a baking afficionado, I'll be using an example related to brainstorming the choice of factors in a cake-baking experiment (where the response is the moisture after baking the cake). Creating a Fishbone Diagram by Typing Information into the Dialog First, we'll start by using the drop-down lists on the left side to tell Minitab that our information into this dialog box, versus having the data already typed into the worksheet). For this example, I'll have four branches in the Fishbone, so I've selected Constants next to Branch 1, 2, 3 and 4 below, and then I've typed the name of each branch on the right side, under Label: As we work through this, we can always click OK to see our progress. So far we have: To go back to the last dialog to keep entering information, press Ctrl+E on the keyboard. Next, I've entered the causes in the empty column in the middle. Note that any individual cause that included in double-quotes, Minitab will assign each individual word as a cause. Multiple causes for the same branch are entered with a space between the causes. For example, to enter Ambient Temperature and Ambient Moisture as causes, I'll enter: "Ambient Moisture" After completing the dialog like in the example below, we can click OK again to see our progress: Now I've used Ctrl+E on my keyboard again to return to the dialog box. As a final step, I'm going to add sub-branches to some of my causes. For this example, two of the causes in the 'Held constant factors' branches to some of my causes are automatically listed in the Labels column. All I need to do is (1) choose Constants from the drop-down list and (2) type in the sub-branch labels. Note that the same double-quote rule for sub-braches with multiple words applies here: After completing the dialog above and clicking OK in each window, we can see our final graph: Creating a Fishbone Diagram by Using Data Entered in the Worksheet As a first step, I'll type in my data like in the example below: Notice that here we don't need to include double-quotes for any causes or sub-branches that are described with multiple words. Also, note that the branch titles are still typed into the dialog (so the column titles). After entering the data in the worksheet, I can use Ctrl + E to go back to the dialog box. This time I'll leave the default option for the Causes ('In column') and I'll select the columns Now I can click OK in each dialog box to show the fishbone diagram, which looks just like the one we generated using the first method: I want to use for each cause:

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